

**APPENDIX C**  
**LABORATORY CERTIFICATES OF ANALYSIS**



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 1 of 6

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
9921785	280-01A	45	45	--	--	--	3	--	30	--	--	22	Gray	AM	
9921786	280-01B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921787	280-01C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921788	280-02A	65	65	--	--	--	--	--	10	--	--	25	Gray	AM	
9921789	280-02B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921790	280-02C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921791	280-03A	60	35	25	--	--	--	--	--	--	--	40	White	AM	
9921792	280-03B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921793	280-03C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921794	280-04A	43	43	--	--	--	12	--	--	--	--	45	Gray	AM	
9921795	280-04B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921796	280-04C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921797	280-06A	NAD	--	--	--	--	TR	--	2	--	--	98	White	AM	
9921798	280-06B	NAD	--	--	--	--	--	--	TR	--	--	100	Beige	AM	
9921799	280-06C	NAD	--	--	--	--	TR	--	TR	--	--	100	Off-White	AM	
9921800	280-06D	NAD	--	--	--	--	--	--	TR	--	--	100	Off-White	AM	
9921801	280-06E	NAD	--	--	--	--	--	--	TR	--	--	100	Off-White	AM	
9921802	280-06F	NAD	--	--	--	--	--	--	TR	--	--	100	Beige	AM	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (# 1143), & New York ELAP (#10920) Accredited Laboratory  
4475 Forbes Blvd. • Lanham, MD 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
 Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 2 of 6

## Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
9921803	280-06G	NAD	--	--	--	--	--	--	TR	--	--	100	Off-White	AM	
9921804	280-09A	NAD	--	--	--	--	--	--	TR	--	--	100	Red	AM	
9921805	280-09B	NAD	--	--	--	--	--	--	TR	--	--	100	Red	AM	
9921806	280-10A	NAD	--	--	--	--	--	--	10	--	--	90	Beige	AM	
9921807	280-10B	NAD	--	--	--	--	--	--	25	--	--	75	Black	AM	
9921808	280-11A	2	2	--	--	--	--	--	TR	--	--	98	Off-White	AM	
9921809	280-11B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921810	280-12A	NAD	--	--	--	--	--	--	2	--	--	98	Black	AM	
9921811	280-12B	NAD	--	--	--	--	--	--	10	--	--	90	Black	AM	
9921812	280-13A	NAD	--	--	--	--	--	--	TR	--	--	100	White	AM	
9921813	280-13B	NAD	--	--	--	--	--	--	TR	--	--	100	White	AM	
9921814	280-13C	NAD	--	--	--	--	--	--	TR	--	--	100	White	AM	
9921815	280-14A	NAD	--	--	--	--	--	--	10	--	--	90	Black	AM	
9921816	280-14B	NAD	--	--	--	--	--	--	5	--	--	95	Black	AM	
9921817	280-14C	NAD	--	--	--	--	--	--	6	--	--	94	Black	AM	
9921818	280-19A	NAD	--	--	--	--	10	--	60	--	--	30	Gray	AM	
9921819	280-19B	NAD	--	--	--	--	5	--	60	--	--	35	Gray	AM	
9921820	280-19C	NAD	--	--	--	--	10	--	20	--	--	70	Gray	AM	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge or liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.

All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (#1143), & New York ELAP (#10920) Accredited Laboratory  
 4475 Forbes Blvd., Lanham, MD 20706 • (301) 526-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 3 of 6

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
9921821	280-20A	NAD	--	--	--	--	30	--	30	--	--	40	Gray	AM	
9921822	280-21A	NAD	--	--	--	--	--	--	TR	--	--	100	Gray	AM	
9921823	280-22A	NAD	--	--	--	--	--	--	5	--	--	95	Black	AM	
9921824	280-23A	NAD	--	--	--	--	--	--	TR	--	--	100	Beige	AM	
9921825	280-24A	NAD	--	--	--	--	--	--	10	--	3	87	Black	AM	
9921826	280-25A	2	2	--	--	--	--	--	2	--	--	96	Black	AM	
9921827	280-28A	NAD	--	--	--	--	--	--	20	--	--	80	Beige	AM	
9921828	280-28B	NAD	--	--	--	--	--	--	3	--	--	97	Beige	AM	
9921829	280-28C	NAD	--	--	--	--	--	--	4	--	--	96	Beige	AM	
9921830	280-29A	NAD	--	--	--	--	TR	--	3	--	--	97	Gray	AM	
9921831	280-29B	NAD	--	--	--	--	--	--	2	--	--	98	Off-White	AM	
9921832	280-31A	NAD	--	--	--	--	--	--	TR	--	--	100	Green	AM	
9921833	280-32A	NAD	--	--	--	--	--	--	15	--	--	85	Black	AM	
9921834	280-33A	NAD	--	--	--	--	--	--	--	--	--	100	White	AM	
9921835	280-33B	TR	TR	--	--	--	--	--	TR	--	--	100	Off-White	AM	
9921836	280-33C	NAD	--	--	--	--	--	--	2	--	--	98	Off-White	AM	
9921837	280-33D	NAD	--	--	--	--	--	--	2	--	--	98	White	AM	
9921838	280-33E	NAD	--	--	--	--	--	--	2	--	--	98	Gray	AM	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.

All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (# 1143), & New York ELAP (#10920) Accredited Laboratory  
4475 Forbes Blvd. • Lanham, MD 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
 Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 4 of 6

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
9921839	280-33F	NAD	--	--	--	--	--	--	TR	--	--	100	White	AM	
9921840	280-33G	NAD	--	--	--	--	--	--	TR	--	--	100	White	AM	
9921841	280-34A	NAD	--	--	--	--	65	--	5	--	--	30	Gray	AM	
9921842	280-35A	NAD	--	--	--	--	--	--	5	--	--	95	Beige	AM	
9921843	280-36A	40	40	--	--	--	--	--	--	20	--	40	Off-White	AM	
9921844	280-37A	60	--	60	--	--	--	--	TR	--	--	40	Gray	AM	
9921845	280-37B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921846	280-37C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921847	280-37D	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921848	280-37E	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921849	280-38A	22	2	20	--	--	--	--	--	--	--	78	Off-White	AM	
9921850	280-38B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921851	280-38C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921852	280-39A	70	40	30	--	--	--	--	--	--	--	30	Off-White	AM	
9921853	280-39B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921854	280-39C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921855	280-42A	NAD	--	--	--	--	--	--	2	--	--	98	Beige	AM	
9921856	280-45A	NAD	--	--	--	--	--	--	2	--	--	98	Beige	AM	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge or liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.

All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (# 1143), & New York ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD 20706 • (301) 264-0264 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
 Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 5 of 6

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
9921857	280-45B	NAD	--	--	--	--	--	--	20	--	--	80	Black	AM	
9921858	280-46A	NAD	--	--	--	--	--	--	TR	--	--	100	Beige	AM	
9921859	280-46B	NAD	--	--	--	--	--	--	15	--	--	85	Black	AM	
9921860	280-50A	TR	TR	--	--	--	--	--	10	--	--	90	Off-White	AM	
9921861	280-53A	NAD	--	--	--	--	--	--	TR	--	--	100	Green	AM	
9921862	280-54A	NAD	--	--	--	--	--	--	5	--	--	95	Black	AM	
9921863	280-55A	NAD	--	--	--	--	--	--	TR	--	--	100	Beige	AM	
9921864	280-56A	NAD	--	--	--	--	--	--	5	--	--	95	Black	AM	
9921865	280-57A	30	10	20	--	--	--	--	--	--	--	70	Off-White	AM	
9921866	280-57B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921867	280-57C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921868	280-58A	65	65	--	--	--	--	--	--	--	--	35	Gray	AM	
9921869	280-58B	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921870	280-58C	--	--	--	--	--	--	--	--	--	--	--		AM	Sample Not Analyzed
9921871	280-59A	NAD	--	--	--	--	--	--	20	--	--	80	Brown	AM	
9921872	280-60A	NAD	--	--	--	--	--	--	20	--	--	80	Beige	AM	
9921873	280-61A	NAD	--	--	--	--	--	--	70	--	--	30	Brown	AM	
9921874	280-62A	NAD	--	--	--	--	30	--	TR	--	--	70	Gray	AM	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.

All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (# 1143), & New York ELAP (#10920) Accredited Laboratory  
 4475 Forbes Blvd. • Lanham, MD 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**Client:** EA Engineering Science & Technology  
**Address:** 15 Loveton Circle  
Sparks, Maryland 21152

**Job Name:** District of Columbia Public Schools  
**Job Location:** Miner Elementary School - #280  
**Job Number:** 60957.31  
**P.O. Number:** Not Provided

**Chain Of Custody:** 62234  
**Date Analyzed:** 4/5/99  
**Person Submitting:** Christina Vodak

**Attention:** Kris Hoiem

Page 6 of 6

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wapiti Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
-------------------	-----------------	----------------	--------------------	-----------------	---------------------	------------------------	------------------------	--------------------	-----------------	-------------------	---------------	---------------------	--------------	------------	----------

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected"

TR = "Trace equals less than 1% of this component"

Adam Marx

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge or liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#8863), NVLAP (# 1143), & New York ELAP (#10920) Accredited Laboratory  
4475 Forbes Blvd. • Lanham, MD 20706 • (301) 2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643

**APPENDIX D**

**ASBESTOS INSPECTOR CERTIFICATES**





ManTech Environmental Corporation  
1901 Research Blvd, Suite 240 • Rockville, MD 20850  
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

**CHRISTINA VODAK**

has successfully completed an EPA approved course and examination for

***AHERA Building Inspector and Management Planner Refresher—8 Hours***

and has completed training for accreditation under TSCA Title II

**June 15, 1998**

Location of Training: Rockville, MD

Certificate Number: 98-06-15-07

Certificate Expires: June 15, 1999

Exam Date: June 15, 1998

*Rachel Riley*

Instructor: Rachel Riley, CET

*Rachel Riley*

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation



Printed on recycled paper

# AEROSOL MONITORING & ANALYSIS, INC.

THIS IS TO CERTIFY THAT

**CHRISTINA M. VODAK**

**HAS MET THE ATTENDANCE REQUIREMENTS  
AND SUCCESSFULLY COMPLETED  
THE COURSE ENTITLED**

**8 HR EPA AHERA SUPERVISOR/COMPETENT PERSON RECERTIFICATION  
FOR ACCREDITATION UNDER TSCA TITLE II**

July 17, 1997

COURSE DATE

E. RUSH BARNETT

COURSE DIRECTOR



July 17, 1998

EXPIRATION DATE

032356

CERTIFICATE NO.

1331 Ashton Road



P.O. Box 646



Hanover, MD 21076



410-684-3327



FAX: 410-684-3724

# AEROSOL MONITORING & ANALYSIS, INC.

THIS IS TO CERTIFY THAT

**CHRISTINA M. VODAK**

HAS MET THE ATTENDANCE REQUIREMENTS  
AND SUCCESSFULLY COMPLETED  
THE COURSE ENTITLED

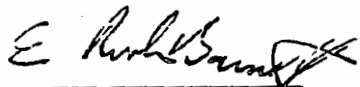
**8 HR EPA AHERA INSPECTOR MANAGEMENT PLANNER RECERTIFICATION**  
**FOR ACCREDITATION UNDER TSCA TITLE II**

July 18, 1997

COURSE DATE

E. RUSH BARNETT

COURSE DIRECTOR



July 18, 1998

EXPIRATION DATE

032456

CERTIFICATE NO.

1331 Ashton Road



P.O. Box 646



Hanover, MD 21076



410-684-3327



FAX: 410-684-3724

# AEROSOL MONITORING & ANALYSIS, INC.

THIS IS TO CERTIFY THAT

**CHRISTINA M. VODAK**

HAS MET THE ATTENDANCE REQUIREMENTS  
AND SUCCESSFULLY COMPLETED  
THE COURSE ENTITLED

**8 HR EPA AHERA SUPERVISOR/COMPETENT PERSON RECERTIFICATION**  
**FOR ACCREDITATION UNDER TSCA TITLE II**

July 17, 1997

COURSE DATE

E. RUSH BARNETT

COURSE DIRECTOR



July 17, 1998

EXPIRATION DATE

032356

CERTIFICATE NO.

1331 Ashton Road



P.O. Box 646



Hanover, MD 21076



410-684-3327



FAX: 410-684-3724

**CHRISTINA VODAK**

**HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY  
COMPLETED THE EXAM IN THE ASBESTOS TRAINING COURSE ENTITLED**

**8-HR EPA AHERA INSPECTOR/MANAGEMENT PLANNER RECERTIFICATION  
FOR ACCREDITATION UNDER TSCA TITLE II.**

**AEROSOL MONITORING & ANALYSIS, INC.**  
 TRAINING PROVIDER  
**1340 ASHTON ROAD**  
 STREET  
**HANOVER, MARYLAND 21076**  
 CITY, STATE, ZIP  
**(410) 684-3327**  
 TELEPHONE NUMBER

**JULY 29, 1996**  
 COURSE DATE(S)  
**JULY 29, 1997** **JULY 29, 1996**  
 EXPIRATION DATE EXAMINATION DATE  
**21-02-02 IMP/R**

COURSE APPROVAL NUMBER

*Christina M Vodak*  
 STUDENT'S SIGNATURE

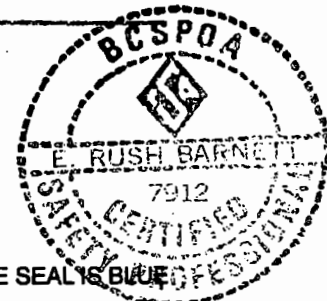
**E. RUSH BARNETT**

COURSE DIRECTOR (NAME AND SIGNATURE)

**STATE OF MARYLAND**

FOR MORE INFORMATION CALL MD DEPT. OF THE ENVIRONMENT (410) 631-3801

ORIGINAL STATE SEAL IS BLUE



CHRISTINA VODAK

**HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY  
COMPLETED THE EXAM IN THE ASBESTOS TRAINING COURSE ENTITLED**

**EPA AHERA INSPECTOR/MANAGEMENT PLANNER**

**FOR ACCREDITATION UNDER TSCA TITLE II.**

**AEROSOL MONITORING & ANALYSIS, INC.**  
TRAINING PROVIDER  
1340 ASHTON ROAD  
STREET  
HANOVER, MARYLAND 21076  
CITY, STATE, ZIP  
(410) 684-3327  
TELEPHONE NUMBER

**AUGUST 14, 1995 - AUGUST 18, 1995**  
COURSE DATE(S)

~~AUGUST 18, 1995~~ ~~AUGUST 18, 1995~~  
EXPIRATION DATE EXAMINATION DATE

**21-02-02 IMP**  
COURSE APPROVAL NUMBER

*Christina Vodak*  
STUDENT'S SIGNATURE

**E. RUSH BARNETT**

COURSE DIRECTOR (NAME AND SIGNATURE)

**STATE OF MARYLAND**

OR MORE INFORMATION CALL MD DEPT. OF THE ENVIRONMENT (410) 631-3801

ORIGINAL STATE SEAL IS BLUE



**APPENDIX E**

**LABORATORY ACCREDITATION (NVLAP)**

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP<sup>®</sup>**

ISO/IEC GUIDE 25:1990  
ISO 9002:1987

**Certificate of Accreditation**



**AMA ANALYTICAL SERVICES, INC.**  
LANHAM, MD

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

**BULK ASBESTOS FIBER ANALYSIS**

June 30, 1999

Effective through

For the National Institute of Standards and Technology  
NVLAP Lab Code: 101143-0

merce  
chnology

**NVLAP<sup>®</sup>**

on



INC.

am for satisfactory compliance with  
criteria encompass the requirements  
I/ASQC Q92-1987) as suppliers of  
d on the Scope of Accreditation for:

**LYSIS**

ational Institute of Standards and Technology

NVLAP Lab Code: 101143-0



# The American Industrial Hygiene Association

*is proud to acknowledge that*

**AMA Analytical  
Services, Inc.**

**Lanham, MD**

Laboratory ID # 8863

*has fulfilled the requirements for Industrial Hygiene Laboratory  
Accreditation and has earned distinguished recognition as an*

## **AIHA IH Accredited Laboratory**

*Originally Accredited March 1, 1984, current certificate effective March 1, 1996 until  
March 1, 1999, subject to continued compliance with AIHA accreditation criteria.*



**President**  
**American Industrial Hygiene Association**



**Chair**  
**Analytical Accreditation Board**



**Chairman**  
**IH Laboratory Accreditation Committee**



**January 22, 1996**

**Date Prepared**

**244**

**Certificate Number**



THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION  
*is proud to acknowledge that*

**AMA Analytical Services, Inc.**  
**Lanham, MD**  
**Laboratory ID# 8863**

*has fulfilled the requirements for the Environmental Lead Laboratory Accreditation  
Program and has earned distinguished recognition as an*

**AIHA ELLAP ACCREDITED LABORATORY**

*October 28, 1996 through October 28, 1999*

**In the following matrices: Paint Soil Dust**

*This program is recognized by the EPA as meeting the requirements of the  
National Lead Laboratory Accreditation Program established under Title X of the  
Residential Lead-Based Paint Hazard Reduction Act of 1992.*

Zack Mandsdorf, Ph.D., CIII, CSP  
President, American Industrial Hygiene Association

Lisa A. Constantine, CIII  
Chair, Environmental Lead Laboratory  
Accreditation Committee

Don Hart, Ph.D., CIII  
Chair, Analytical Accreditation Board

NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



Expires 12:01 AM April 1, 1999  
ISSUED April 1, 1998  
REVISED June 26, 1998

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

No.: 10920

Director: MR. G. EDWARD CARNEY  
Lab Name: AMA ANALYTICAL SERVICES INC  
Address : 4485 FORBES BLVD  
LANHAM MD 20706

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

No.: 102891

Wadsworth Center

of the New York State Department of Health. Valid only at the address shown.  
conspicuously posted. Valid certificate has a red serial number.

NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



Expires 12:01 AM April 1, 1999  
ISSUED April 1, 1998  
REVISED June 26, 1998

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

b ID. No.: 10920

Director: MR. G. EDWARD CARNEY  
Lab Name: AMA ANALYTICAL SERVICES INC  
Address : 4485 FORBES BLVD  
LANHAM MD 20706

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/ POTABLE WATER

All approved subcategories and/or analytes are listed below:

Heavy Metals I :  
Total  
Al

D.W. Miscellaneous :  
Asbestos

ID No.: 102890

Wadsworth Center

Property of the New York State Department of Health. Valid only at the address shown.  
Must be conspicuously posted. Valid certificate has a red serial number.



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
LABORATORIES ADMINISTRATION

*Certifies That*

AMA ANALYTICAL SERVICES, INC.  
4475 Forbes Boulevard, Lanham, Maryland 20706

*having duly met the requirements of the  
Regulations Governing Laboratory Certification  
And Standards Of Performance In Accordance With  
The Annotated Code of Maryland,  
is hereby approved as a*

*State Certified Water Quality Laboratory*

*To perform the analyses indicated on the Annual Certified Parameter List,  
which must accompany this certificate.*

Certification # 262

Date Issued September 30, 1998

Expiration Date September 30, 1999  
(Not Transferable)

*J. Michael Joseph*  
Director, Laboratories Administration



DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
LABORATORIES ADMINISTRATION

This is to certify that the following personnel of the

AMA ANALYTICAL SERVICES, INC.

Laboratory

4475 Forbes Boulevard, Lanham, Maryland 20706

Address

have been approved to perform the indicated procedures on Drinking Water  
in connection with interstate regulations, and/or Maryland Law.

Name

Tests approved

Mr. G. Edward Carney  
Laboratory Director &  
Laboratory Manager

\* Trace Metals

Group 1 -- Lead  
Copper

Mr. Yassin Jeilani

\* Denotes Provisional Certification

certificate expires Sept. 30, 1999 unless sooner withdrawn.

ification No. 262

ssued: September 30, 1998

J. Mehser  
Director, Laboratories Administration

30155 6/94



POST IN A CONSPICUOUS PLACE



*Commonwealth of Virginia*  
*Department of General Services*  
*Division of Consolidated Laboratory Services*

Certifies That


**AMA ANALYTICAL SERVICES, INC.**

Having Duly Met the Requirements of the  
Regulations for the Certification of Laboratories Analyzing Drinking Water  
Is hereby Approved as a

**Certified Drinking Water Laboratory**

To Perform the Analyses as indicated on the Annual Certified Parameter List  
Which must accompany this to be valid.

Laboratory ID Number 00006 Effective July 1998 Through June 1999

  
\_\_\_\_\_  
Virginia Laboratory Officer  
Safe Drinking Water Program

This certification is subject to unannounced laboratory inspections.  
Conspicuously display in the laboratory with the annual certified parameter list.  
for certification to analyze drinking water.

Commonwealth of Virginia  
Department of General Services  
Division of Consolidated Laboratory Services

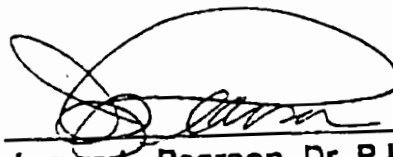
**Annual Certified Parameter List**  
**July 1, 1998 - June 30, 1999**

AMA Analytical Services, Inc.  
4485 Forbes Boulevard  
Lanham, MD 20706

ID Number 00006

**Inorganic Chemical:**

A:	Asbestos
Trace Metal 1:	Lead, Copper



James L. Pearson, Dr. P.H., BCLD  
Virginia Laboratory Officer  
Safe Drinking Water Program

\* Denotes Provisional Certification



DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION

COMMONWEALTH OF VIRGINIA

3600 West Broad Street, Richmond, VA 23230

Telephone: 1 (804) 367-8500

EXPIRES ON

01-31-2000

NUMBER

3333 000067

VIRGINIA ASBESTOS LICENSE

ASBESTOS ANALYTICAL LABORATORY LICENSE

AMA ANALYTICAL SERVICES INC

4475 FORBES BLVD

LANHAM, MD 20706

TEM  
PLM  
PCM



*Jack E. Kutvas*  
Jack E. Kutvas, Director

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER  
THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA

(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

(MAY BE CALLED)

COMMONWEALTH OF VIRGINIA  
VIRGINIA ASBESTOS LICENSE  
ASBESTOS ANALYTICAL LABORATORY  
NUMBER: 3333 000067 EXPIRES: 01-31-2000  
TEM PLM PCM

(MAY BE CALLED)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
3600 West Broad Street Richmond, Virginia 23230

LICENSE

CITY OF PHILADELPHIA  
DEPARTMENT OF LICENSES AND INSPECTIONS

LICENSE ISSUANCE UNIT  
1401 JOHN F. KENNEDY BLVD.  
PHILADELPHIA, PA 19102  
MU6-2490

AMA ANALYTICAL SERVICES INC  
4435 FORBES BLV  
LANHAM MD 20706-0000



3625 000013 ANALYTICAL TESTING LAB  
AMA ANALYTICAL SERVICES INC  
PCM, TEM, PLM

06/25/1998

DISPLAY PROMINENTLY  
IF REQUIRED BY LAW

THIS LICENSE IS GRANTED TO THE PERSON AND LOCATION FOR THE PURPOSE STATED ABOVE. IT IS SUBJECT TO IMMEDIATE CANCELLATION BY THIS DEPARTMENT FOR VIOLATIONS OF CITY ORDINANCES AND REGULATIONS.

LICENSE CODE	LICENSE NUMBER	BUSINESS TAX	EXPIRES LAST DAY OF	CURRENT FEE DUE	DELINQ FEE DUE	PENALTY DUE
3625	000013	6224877	04/1999	0.00	0.00	0.00

PAID THIS AMOUNT: 300.00

ON DATE: 06/25/1998

LICENSE

**SECTION 1.0**  
**Miner Elementary School**  
**Capital Improvement Project (CIP)**  
**Video/Intercom System Installation**  
**March 7, 2000**

---

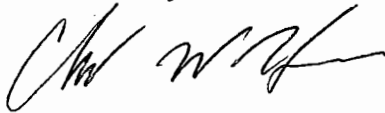
**CIP SCOPE OF WORK (SOW):**

Boggs Environmental Consultants (BEC) conducted a walk through of the CIP SOW location with Robert Reid of ADT Security Services to determine potential asbestos-containing materials disturbance activity at Miner Elementary School, 601 15<sup>th</sup> Street, SE, Washington, District of Columbia. The Video/Intercom System consists of video camera and audio speaker installation at the primary building entrance with cable routing to an operator control station to be installed and located at the main administrative office.

**CIP SOW- ASBESTOS IMPACT SUMMARY:**

BEC conducted an inspection of the proposed work area for the presence of asbestos-containing materials. BEC has determined no asbestos-containing materials and/or presumed asbestos-containing materials are present at the work area.

This report has been written by:



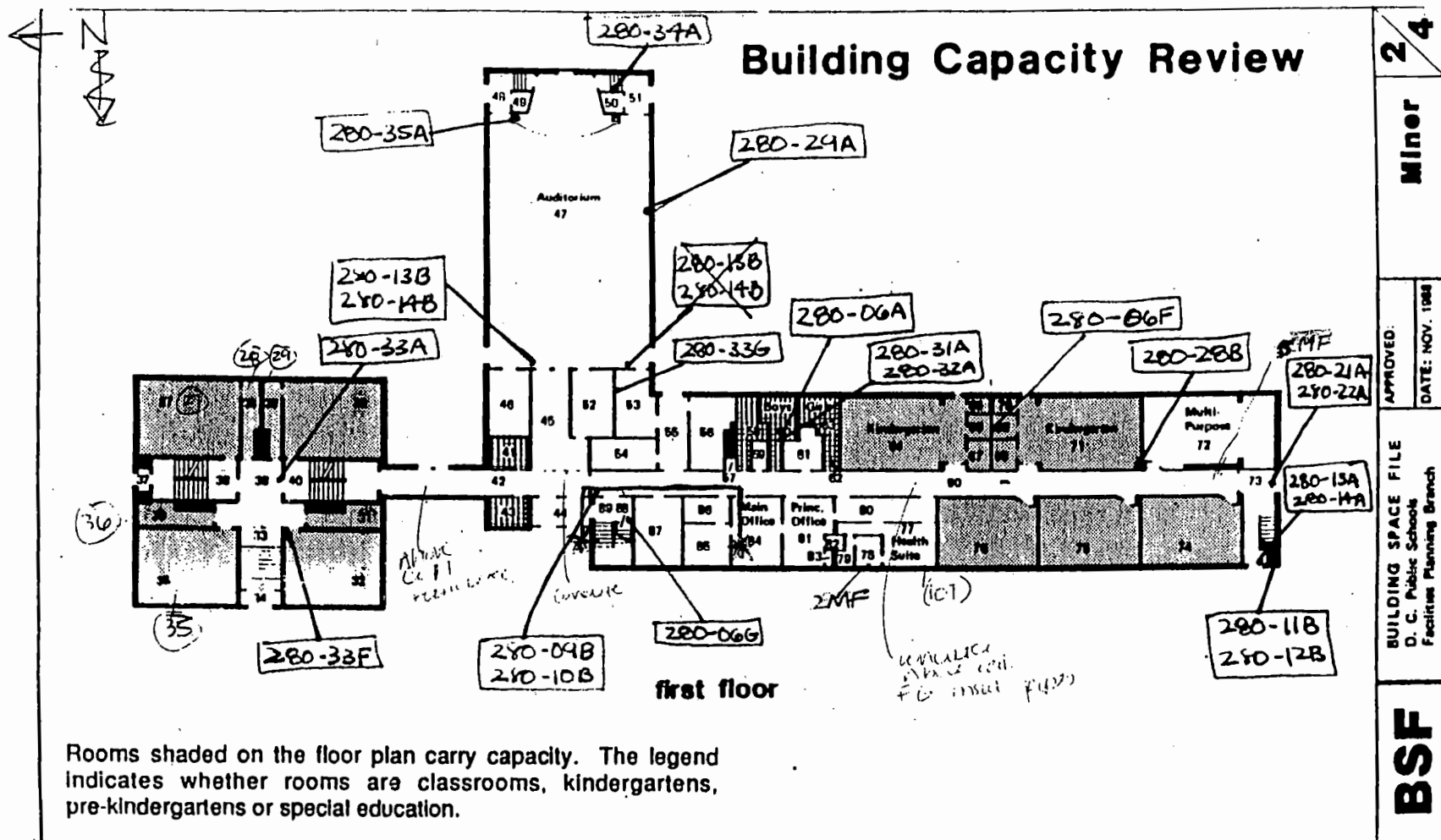
---

Chad Harris, IH  
US EPA AHERA Inspector/Project Designer  
Certification Number MD - 045857, Expires January 28, 2001

- 
- The inspection was performed in accordance with 40 CFR Part 61, Subpart M, (NESHAP).
  - BEC has based our determination in part upon review of "Preliminary Asbestos Inspection Report" (Engineering, Science, and Technology, Incorporated, August, 1999), additional plaster and brown coat information (faxes from Engineering, Science, and Technology, Incorporated, 17 November, 1999 and 23 December, 1999).

**SECTION 2.0**  
**TABLE 1**  
**MINER ELEMENTARY SCHOOL**

Homogeneous Areas		Location	Asbestos Content by (%)	Condition
Number	Description			
19	2'x4' Ceiling tile w/pinholes	Lobby, hallways, and main office	NAD	Good



Space nos. 27, 30, 32, 35, 74, 75 and 76

$$7 \text{ rms} \times 24 = 168$$

Space nos. 64 and 71

$$2 \text{ rms} \times 26 = 52$$

None

0

None

0

$$9 \text{ rms} = \frac{168}{220}$$

Boggs Environmental Consultants

369 High Street  
Morgantown, West Virginia 26505

Office (304) 292-1095  
Fax (304) 292-2320

Date: 3/3/00

Project Reference: \_\_\_\_\_

# NESHAP INSPECTION FORM

School Name: Miner E.S. Video Int. School Address: 601 15<sup>th</sup> St. SE

Homogeneous Areas	Location	Asbestos Content by (%)	Condition
Number	Description		
	<ul style="list-style-type: none"> <li>• Main office (Area 84) - CMU Block walls, 2'x4' C. Tile</li> <li>• Main hall (Area 42) - CMU walls, ceramic <del>tile</del> tile block border (cementitious mortar)</li> <li>• Main Lobby (Area 44) - Typical to Main hall</li> </ul>		
HA 19	Ceiling Tile 2x4 w/ pinholes Areas: 84, 42, 44	NAD	
	<ul style="list-style-type: none"> <li>• Work will begin in (Area 84) Main office and drilling through CMU. The raceway will be run down the main hall mounting on block. Drilling to exterior through CMU and mounting to brick exterior</li> </ul>		

**Table 4. Damaged and Significantly Damaged ACBM**

19-Apr-99

Building Number	Homogeneous Area	Material Description	Room	Room Quantity	Units	COMMENTS
280	01	Boiler Insulation, WHITE, , BOILER BLOCK INSULATION	26	3	SF	DAMAGE TO COVERING, EXPOSING INSULATION
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	73	10	SF	TILES ARE MISSING, MASTIC EXPOSED
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	42	1	SF	VINYL TILE BROKEN/DAMAGED
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	90	15	SF	SEVERAL TILES ARE MISSING AND BROKEN, PIECES OF BROKEN TILE PILED UNDER WATER FOUNTAIN. MASTIC EXPOSED
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	55	4	SF	VINYL TILES MISSING
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	75	1	SF	VINYL TILE MISSING
280	07	Floor Tile, GRAY, 9"X9"X, WITH WHITE AND BLACK STREAKS	65	1	SF	VINYL TILE MISSING
280	08	Tile Mastic, GRAY, 9" X9", MASTIC UNDER HOMOGENOUS AREA 07	42	1	SF	VINYL TILE BROKEN/DAMAGED
280	08	Tile Mastic, GRAY, 9" X9", MASTIC UNDER HOMOGENOUS AREA 07	90	15	SF	SEVERAL TILES MISSING AND BROKEN, PIECES OF BROKEN TILE PILED UNDER WATER FOUNTAIN, MASTIC EXPOSED.
280	08	Tile Mastic, GRAY, 9" X9", MASTIC UNDER HOMOGENOUS AREA 07	73	10	SF	TILES ARE MISSING, MASTIC EXPOSED
280	08	Tile Mastic, GRAY, 9" X9", MASTIC UNDER HOMOGENOUS AREA 07	55	4	SF	VINYL TILE MISSING

**Table 4. Damaged and Significantly Damaged ACBM**

19-Apr-99

Building Number	Homogeneous Area	Material Description	Room	Room Quantity	Units	COMMENTS
280	43	Floor Tile, TAN, 9"X9", WITH BROWN STREAKS	121	10	SF	VINYL TILES ARE MISSING
280	43	Floor Tile, TAN, 9"X9", WITH BROWN STREAKS	120	1	SF	VINYL TILES ARE MISSING
280	43	Floor Tile, TAN, 9"X9", WITH BROWN STREAKS	151	5	SF	VINYL TILES ARE MISSING
280	44	Tile Mastic, , , MASTIC UNDER HOMOGENOUS AREA 43	156	3	SF	VINYL TILES ARE MISSING
280	44	Tile Mastic, , , MASTIC UNDER HOMOGENOUS AREA 43	121	10	SF	VINYL TILES ARE MISSING
280	44	Tile Mastic, , , MASTIC UNDER HOMOGENOUS AREA 43	120	1	SF	VINYL TILES ARE MISSING
280	44	Tile Mastic, , , MASTIC UNDER HOMOGENOUS AREA 43	151	5	SF	VINYL TILES ARE MISSING
280	58	Breaching, WHITE, , ASSOCIATED WITH OLD BOILER	20	1	SF	SOME SMALL RIPS IN COVERAGE, EXPOSING INSULATION



**SECTION 1.0**  
**Miner Elementary School**  
**Capital Improvement Project (CIP)**  
**Fiber Optic & Data Station Cable Installation**  
**April 6, 2000**

---


**CIP SCOPE OF WORK (SOW):**

Boggs Environmental Consultants (BEC) reviewed the "Description/Specifications/Work Statement" (unknown author) to determine Fiber Optic & Data Station Cable Installation SOW locations and identify potential asbestos-containing materials disturbance activity at Miner Elementary School, 601 15<sup>th</sup> Street, NE, Washington, District of Columbia. The SOW includes, but is not limited to, the installation of Fiber Optic and Data station control panels and associated raceways for cable routing at the subject site. The SOW requires limited accessing of ceiling plenums, and/or wall drilling to permit cable raceway routing. Additionally, the scope of work requires repair of all surfaces damaged during installation operations.

**CIP SOW- ASBESTOS IMPACT SUMMARY:**

BEC conducted an inspection of the proposed work areas for the presence of asbestos-containing materials. BEC has determined that asbestos-containing materials and/or presumed asbestos-containing materials are present at the work area. The asbestos-containing brown coat (HA-733) associated with the white wall plaster (HA-33) will be impacted by the SOW. Desired wall penetrations in rooms 27,28,31,30,32,35,36,38,39,40,91,94,95,100,102,103,104 have been marked with yellow paint (most penetrations are above ceiling tile). **BEC notes Fiber Optic & Data Station Cable Installation Work has already been completed on the first and second floors of the new edition of the elementary school prior to inspection.** Areas where work has been completed are in the following rooms: 52, 85, 72, 71, 75, 64, 76, 125, 110, 52, and 119. Refer to attached floor plans for room numbers as the SOW room numbers differ.

This report has been written by:



Erik D. Zimmers

US EPA AHERA Inspector

Certification Number 045712 Expires 28 January 2001

- 
- The inspection was performed in accordance with 40 CFR Part 61, Subpart M, (NESHAP).
  - BEC has based our determination in part upon review of "Preliminary Asbestos Inspection Report" (Engineering, Science, and Technology, Incorporated, August, 1999), additional plaster and brown coat information (faxes from Engineering, Science, and Technology, Incorporated, 17 November, 1999 and 23 December, 1999).

**SECTION 2.0**  
**TABLE 1- ASBESTOS CONTAINING MATERIALS DATA**  
**MINER ELEMENTARY SCHOOL**

Homogeneous Areas		Location	Asbestos Content by (%)	Condition
Number	Description			
EA 09	Floor tile, pink, 12"x12", with specks	14	NAD	INTACT
EA-10	Floor tile, mastic associated with HA-09	14	NAD	INTACT
EA-13	Floor tile, white, 12"x12", with tan specks	11	NAD	INTACT
EA-14	Tile mastic, white associated with HA-13	11	NAD	INTACT
EA-06	Plaster, white, ceiling plaster	THROUGHOUT	NAD	INTACT
EA-706	Brown coat associated with HA-06	THROUGHOUT	NAD	INTACT
EA-19	Ceiling tile, white, 2'x4', with pinholes	30, 11, 105, 203, 206, & 208 Hallway 45, 90, & 104	NAD	INTACT
EA-20	Ceiling tile, white, 2'x4', with fissures	30 & 11	NAD	INTACT
EA-29	Wallboard, drywall	11	NAD	INTACT
EA-33	Plaster, white, wall plaster	27, 28, 31, 32, 33, 35, 36, 38, 39,40,91,94,95,100,102,103,104	NAD	INTACT
EA-733	Brown coat associated with HA-33	27, 28, 31, 32, 33, 35, 36, 38, 39,40,91,94,95,100,102,103,104	7	INTACT
EA- 43	FLOOR TILE, 9"x9", tan with brown streaks	119 HUB LOCATION	PACM	INTACT